

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of:

Daniel A. Erlanson et al.

Application Serial No. 09/990,421

Filed: November 21, 2001

For: **EXTENDED TETHERING
APPROACH FOR RAPID
IDENTIFICATION OF LIGANDS**

) Examiner: Epperson, Jon D.

) Art Unit: 1639

) Confirmation No: 4560

) Attorney's Docket No. 39750-0001A

) Customer No. 25213

EXPRESS MAIL LABEL NO. EL 993 692 059 US

Date Mailed: OCTOBER 22, 2004

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

☐ This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

- ☐ (1) It is being filed within 3 months of the application filing date and is other than a continued prosecution application under § 1.53(d)
-- OR --
- ☐ (2) It is being filed within 3 months of entry of a national stage
-- OR --
- ☐ (3) It is being filed before the mail date of the first Office Action on the merits

-- OR --

☐ (4) It is being filed before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

☒ 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; or (3) the mailing date of a first Office action on the merits, but before the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, then:

☐ a certification as specified in §1.97(e) is provided below; or

☒ a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

☐ 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:

A. a certification as specified in §1.97(e) is completed below; and

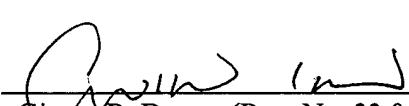
B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; **and**

C. a fee of \$180.00 as set forth in §1.17(i)(1) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

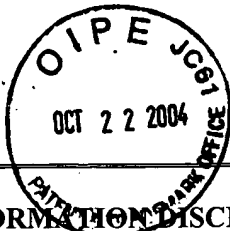
☒ **Fee Authorization.** The Commissioner is hereby authorized to charge the above-referenced fees of **\$180.00** and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. **08-1641 (Attorney's Docket No. 39750-0001A)**.

Respectfully submitted,

Dated: October 22, 2004

By: 
Ginger R. Dreger (Reg. No. 33,055)

HELLER EHRMAN WHITE & MCAULIFFE LLP
275 Middlefield Road
Menlo Park, California 94025-3506
Telephone: (650) 324-7000
Facsimile: (650) 324-0638



INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09/990,421	
			APPLICANT : Daniel A. ERLANSON et al.			
			FILING DATE: November 21, 2001		GROUP: 1639	

U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 00/00823	1/6/2000	PCT	GO1N	33/53	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Bella, J., et al., "The structure if the two amino-terminal domains of human ICAM-1 suggests how it functions as a rhinovirus receptor and as an LFA-1 integrin ligand", Proc. Natl. Acad. Sci. USA, Vol. 95, No. 8, pp 4140-4145, April 1998.
	Berman, H. M., et al., "The Protein Data Bank", Nucleic Acids Research, Vol. 28, No. 1, pp 235-242, 2000.
	Brady Jr., G. Patrick, et al., "Fast prediction and visulatization of protein binding pockets with PASS", Journal of Computer Aided Molecular Designs, Vol. 14, pp 383-401, 2000.
	Bravo, Jerónimo, et al., "Crystal structure of a cytokine-binding region of gp 130", The Embo Journal, Vol. 17, No 6, pp. 1665-1674, 1998.
	Brown, Nick R., et al., "The structural basis for specificity of substrate and recruitment peptides for cyclin - dependent kinases", Nature Cell Biology, Vol. 1, pp 438-443, November 1999.
	Burlingame, A.L., et al., "Mass Spectrometry", Analytical Chemistry, Vol. 68, No. 12, pp 599R-651R, June 1996.
	Cerretti, Douglas Pat, et al., "Molecular Cloning of the Interleukin-1β Converting Enzyme", Science, Vol. 356, pp 97-100, April 1992.
	Cha, Sun-Shin, et al., "Crystal Structure of TRAIL-DR5 Complex Identifies a Critical Role of the Unique Frame Insertion in Conferring Recognition Specificity", J Biol. Chem., Vol. 275, No. 40, pp 31171-31177, 2000
	Cha, Sun-Shin, et al., "2.8 Å Resolution Crystal Structure of Human TRAIL, a Cytokine with Selective Antitumor Activity", Immunity, Vol. 11, No 2, pp 253-261, August 1999.
	Chan, David C., et al., "Core Structure of gp41 from the HIV Envelope Glycoprotein", Cell, Vol. 89, No. 2, pp 263-273, April 1997.
	Chen, Julian, C.-H., et al., "Crystal structure of the HIV-1 integrase catalytic core and C-terminal domains: A model for viral DNA binding", PNAS USA, Vol. 97, No. 15, pp 8233-8238, July 2000.
	Chothia, Cyrus, "The Nature of the Accessible and Buried Surfaces in Proteins", J. Molecular Biol., Vol. 105, pp 1-14, 1976.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Chow, Dar Chone, et al., "Structure of an Extracellular gp130 Cytokine Receptor Signaling Complex", Science, Vol. 291, pp 2150-2155, March 2001.						
	Chu, Yen Ho, et al, " Affinity Capillary Electrophoresis-Mass Spectrometry for Screening Combinatorial Libraries", J. Am. Chem. Soc., Vol. 118; pp 7827-7835, 1996.						
	Clackson, Tim, et al., "A High Spot of Binding Energy in Hormone-Receptor Interface", Science, Vol. 267, pp 383-386, January 1995.						
	Cohen G.M., "Caspases: the executioner of apoptosis", Biochem. J, Vol. 326, pp 1-16, 1997.						
	Connolly, Michael L., "Solvent -Accessible Surfaces of Proteins and Nucleic Acids", Science, Vol. 221, No. 4612, pp 709-713, 1983.						
	Cosenza, Larry, et al., "Comparative model building of interleukin-7 using interleukin-4 as a template: A structural hypothesis that displays atypical surface chemistry in helix D important for receptor activation", Protein Science, Vol. 9, pp 916-926, 2000						
	Creamer, Trevor P., et al, "Modeling Unfolded States of Peptides and Proteins", Biochemistry, Vol. 34, pp 16245-16250, 1995.						
	Creighton, Thomas E., Proteins: Structures and Molecular Principles, W.H. Freeman & Co, N.Y., pp 239-245, 1983.						
	Cunningham, Brian C. et al., "Comparison of a Structural and a Functional Epitope", J. Mol. Biol., Vol. 234, pp 554-563, 1993.						
	Cunningham, Brian C., et al., "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis", Science, Vol. 244, pages 1081-1085, June 1989.						
	Davies, Gregg, et al, "Use of a Diimidazole Cross-Linking Reagent to Examine the Subunit Structure of a Rabbit Muscle Protein Kinase", Canadian J. Biochem., Vol. 50, pp 416-422, 1972.						
	Dessen, Andrea, et al., "Crystal Structure of Human Cytosolic Phospholipase A ₂ Reveals a Novel Topology and Catalytic Mechanism", Cell, Vol. 97, pp 349-360, April 1999.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Di Marco, Stefania, et al., "Inhibition of the Hepatitis C Virus NS3/4A Protease ", J. Biol Chem, Vol. 275, No 10, pp 7152-7157, 2000						
	Duncan, Bruce S., et al., "Approximation and Characterization of Molecular Surfaces", Biopolymers, Vol. 33, pp 219-229, 1993.						
	Eck, Michael J., et al., "The Structure of Tumor Necrosis Factor- α at 2.6 Å Resolution", J Biol. Chem, Vol 264, No. 29, pp 17595-17605, 1989.						
	Ede, Nicholas J., et al., "A Simple Linker for the Attachment of Aldehydes to the Solid Phase. Application to Solid Phase Synthesis by the Multipin™ Method", Tetrahedron Letters, Vol. 38, No. 40, pp 7119-7122, 1997.						
	Eigenbrot, Charles, et al., "The Factor VII Zymogen Structure Reveals Registration of β Strands during Activation", Structure, Vol. 9, pp 627-636, 2001.						
	Ettmayer, P. et al, "Structural and Conformational Requirements for High-Affinity Binding to the SH2 Domain of Grb2 ¹ⁿ ", J. Med. Chem., Vol. 42, No 6, pp 971-980, 1999.						
	Fengler, Annett, et al., "Three-dimensional structures of the cysteine proteases cathepsins K and S deduced by knowledge-based modeling and active site characteristics", Protein Engineering, Vol. 11, No 11, pp 1007-1013, 1998.						
	Finer-Moore, Janet S., et al., "Solvent Structure in Crystals of Trypsin Determined by X-Ray and Neutron Diffraction", Proteins: Structure, Function and Genetics, Vol. 12, pp 203-222, 1992.						
	Fitzgerald Michael, et al. "Biochemical mass spectrometry: worth the weight", Chemistry & Biology, Vol. 3, pp 707-715, September 1996.						
	Garman, Scott, C. et al., "Crystal Structure of the Human High-Affinity IgE Receptor", Cell, Vol. 95, pp 951-961, December 1998.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Garman, Scott, C. et al., "Structure of the Fc fragment of human IgE bound to its high-affinity receptor FcεER1α", Nature, Vol. 406, pp 259-266, July 1998.						
	Gerber, Nancy, et al., "Receptor-Binding Conformation of the 'ELR ' Motif of IL-8: X-Ray Structure of the L5C/H33C Variant at 2.35 Å Resolution", Vol. 38, pp 361-367, 2000.						
	Grubbs, Robert H., et al., "Ring-Closing Metathesis and Related Processes in Organic Synthesis", Acc. Chem. Res., Vol. 28, pp. 446-453, 1995.						
	Hage, Thorston, et al., "Crystal Structure of the Interleukin-4/Receptor α Chain Complex Reveals a Mosaic Binding Interface", Cell, Vol. 97, pp 271-281, 1999.						
	Hobohm, Uwe, et al, "Selection of representative protein data sets", Protein Science, Vol. 1, pp 409-417, 1992						
	Hong, Lin, et al., "Structure of the Protease Domain of Memapsin 2 (β-Secretase) Complexed with Inhibitor", Science, Vol. 290, pp 150-153, October 2000.						
	Hymowitz, Sarah, et. al., "A Unique Zinc-Binding Site Revealed by a High Resolution X-ray Structure of Homotrimeric Apo2L/TRAIL", Biochemistry, Vol. 39, pp 633-640, 2000.						
	Ikemizu, Shinji, et al, "Structure and Dimerization of a Soluble Form of B7-1", Immunity, Vol. 12, pp 51-60, January 2000.						
	Karpusas, M. et al, "2 Å crystal structure of an extracellular fragment of human CD40 ligand", Structure, Vol. 3, No. 12, page 1426, 1995						
	Kussie, Paul H., et al, "Structure of the MDM2 Oncoprotein Bound to the p53 Tumor Suppressor Transactivation Domain", Science, Vol. 274, pp 948-953, November 1996.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Lee, B. et al., "The Interpretation of Protein Structures: Estimation of Static Accessibility", J Mol. Biol., Vol. 55, pp 379-400, 1971.						
	Liang, Jun, et al., "Refined structure of the FKBP12-rapamycin-FRB ternary complex at 2.2 Å resolution", Acta Crystallographica Section D, D55, pp 736-744, 1999.						
	Loo, Joseph A., et.al., "Chapter 32: Application of Mass Spectrometry for Characterizing and Identifying Ligands from Combinatorial Libraries", Annual Reports in Medicinal Chemistry, Vol. 31, pp 319-325, 1996.						
	Lubowski, Jacek, et al., "The Structure of MCP-1 in two crystal forms provides a rare example of variable quaternary interactions", Nature Structural Biology", Vol. 4, No. 1, pp 64-69, January 1997.						
	Maignan, Sébastien, et al, "Crystal Structure of the Mammalian Grb2 Adaptor", Science, Vol. 268, pp 291-293, April 1995.						
	Maignan, Sébastien, et al., "Crystal Structures of the Catalytic Domain of HIV-1 Integrase Free and Complexed with its Metal Codfactor: High Level of Similarity of the Active Site with Other Viral Integrases", J. Mol. Biol., Vol. 282, pp 359-68, 1998.						
	March, Jerry, "Advanced Organic Chemistry: Reactions, Mechanisms and Structure:", John Wiley & Sons, New York, 4th Edition, pp. 898 -900, 1276, 904-906, 1275, 1299, 892, 1280, 1296, 1297, 1284, 1285, 1281, 368, 1269, 392, 1264, 1146-1148, 1992.						
	Maskos, Klaus, et al, "Crystal structure of the catalytic domain of human tumor necrosis factor-α-converting enzyme", PNAS, Vol. 95, pp 3408-3412, March 1998.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Matthews, D.A., et al, "Structure-assisted a design of mechanism-based irreversible inhibitors of human rhinovirus 3C protease with potent antiviral activity against multiple rhinovirus serotypes", Proc Natl. Sci. USA, Vol. 96, pp 11000-11007, September 1999.						
	McGrath, Mary E., et al, " Crystal structure of human cathepsin K complexed with a potent inhibitor", Nature Structural Biology, Vol. 4, No. 2, pp 105-109, February 1997.						
	Milburn, Michael V., et al., A novel dimer configuration revealed by the crystal structure at 2.4 Å resolution of human interleukin-5 Nature, Vol. 363, pp 172-176, 1993.						
	Mittl. Peer R.E., et al, "Structure of Recombinant Human CPP32 in Complex with the Tetrapeptide Acetyl-Asp-Val-Ala-Asp Fluoromethyl Ketone", J. Biol. Chem., Vol. 272, No. 10, pp 6539-47, March 1997.						
	Miyaura, Noria, et al., "Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds", Chem. Rev., Vol 95, pp 2457-2483, 1995.						
	Mohammadi, Moosa, et al., "Structure of the FGF Receptor Tyrosine Kinase Domain Reveals a Novel Autoinhibitory Mechanism", Cell, Vol. 86, pp 577-587, August 1996.						
	Molteni, Valentina, et al., "Identification of a small-molecule binding site at the dimmer interface of the HIV integrase catalytic domain", Acta Crystallographica Section D, Biological Crystallography, Vol. 57, pp 536-544, 2001.						
	Muller, Thomas, et al., "Human Interleukin-4 and Variant R88Q: Phasing X-ray Diffraction Data by Molecular Replacement Using X-ray and Nuclear Magnetic Resonance Models", J. Mol. Biol., Vol. 247, No. 2, pp 360-372, 1995.						
	Muller, Yves A., et al, " The Crystal Structure of the Extracellular Domain of Human Tissue Factor Refined to 1.7 Å Resolution", J. Mol. Biol., Vol. 256, No 1, pp 144-159, 1996.						
	Ni, Chao-Zhou, et al., "Molecular basis for CD40 signaling mediated by TRAF3", Proc. Natl. Acad, Sci USA, Vol. 97, No. 19, pp 10395-10399, 2000.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Nicholls, Anthony, et al, " Protein Folding and Association: Insights From the Interfacial and Thermodynamic Properties of Hydrocarbons", Proteins, Vol. 11, pages 281-296, 1991.						
	Okamoto, Yoshinori, et al., "Peptide Based Interleukin-1 β Converting Enzyme (ICE) Inhibitors: Synthesis, structure Activity Relationships and Crystallographic Study of the ICE-inhibitor Complex", Chem. Pharm. Bull. Vol. 47, No. 1, pp 11-21, January 1999.						
	Oikonomakos, NG, et al, "A new allosteric site in glycogen phosphorylase b as a target for drug interactions", Structure, Vol. 8, pp 575-584, 2000.						
	Parlow, et al, "Discovery of a herbicidal lead using polymer-bound activated esters in generating a combinatorial library of amides and esters", Molecular Diversity, Vol. 1, pp 266-269, 1995.						
	Pátek, Marcel, et al., "Solid-Phase Synthesis of 'Small' Organic Molecules Based on Thiazolidine Scaffold", Tetrahedron Letters, Vol. 36, No. 13, pp 2227-2230, 1995.						
	Pereira, Pedro J., et al, "Human β -tryptase is a ring-like tetramer with active sites facing a central pore", Nature, Vol. 392, pp 306-311, March 1998.						
	Plotnikov, Alexander N., et al, "Crystal Structures of Two FGH-FGFR Complexes Reveal the Determinants of Ligand-Receptor Specificity", Cell, Vol. 101, pp 413-424, May 2000.						
	Plotnikov, Alexander N. et al, , "Structural Basis for FGF Receptor Dimerization and Activation", Cell, Vol. 98, pp 641-650, September 1999.						
	Plotnikov, Alexander N., et al., "Crystal Structure of Fibroblast Growth Factor 9 Reveals Regions Implicated in Dimerization and Autoinhibition", J. Biol. Chem., Vol. 276, No 6, pp 4322-4329, 2001.						
	Qin, Hongxu, et al., " Structural basis of procaspase-9 recruitment by the apoptotic protease-activating factor 1", Nature, Vol. 399, pp 549-557, June 1999.						
	Qu, Aidong, et al., "Crystal structure of the I-domain from the CD11a/CD18 (LFA-1, $\alpha_L\beta_2$) integrin", Proc. Natl. Acad. Sci. USA, Vol. 92, No. 22, pp 10277-10281, October 1995.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Rahuel, Joseph, et al, "Structural basis for the high affinity of amino-aromatic SH2 phosphopeptide ligands", J. Mol Biol, Vol. 279, pp 1013-1022, 1998.						
	Ramachandran, G.N. et al, "Stereochemistry of polypeptide chain configurations", J. Mol. Biol., Vol. 7, pp 95-99, 1962.						
	Ramachandran, G.N., et al, "Conformation of polypeptides and proteins", Prot. Chem, Vol. 23, pp 283-437, 1968.						
	Richmond, Timothy J., "Solvent accessible surface area and excluded volume in proteins - Analytical equations for overlapping spheres and implications for the hydrophobic effect", J. Mol. Biol., Vol. 178, pp 63-89, 1984.						
	Shiau, Andrew K., et al, "The structural basis of estrogen receptor/coactivator recognition and the antagonism of this interaction by tamoxifen", Cell, Vol. 95, pp 927-937, December 1998.						
	Shrake, A., et al., "Environment and Exposure to Solvent of Protein Atoms. Lysozyme and Insulin", J. Mol. Biol., Vol. 79, pp 351-371, 1973.						
	Siudzak, Gary, "The emergence of mass spectrometry in biochemical research", Proc. Natl. Acad. Sci. USA, Vol. 91, pp 11290-11297, 1994.						
	Sommers, William, et al, "1.9 Å crystal structure of interleukin 6: implications for a novel mode of receptor dimerization and signaling", The EMBO Journal, Vol. 16, No 5, pp 989-997, 1997.						
	Taylor, Neil R., et al., "Dihydropyranocarboxamides Related to Zanamivir: A New Series of Inhibitors of Influenza Virus Sialidases. 2. Crystallographic and Molecular Modeling Study of Complexes of 4-amino-4H-pyran-6-carboxamides and Sialidase from Influenza Virus Types A and B", J. Med. Chem., Vol. 41, pp 798-807, 1998.						
	Thornburry, Nancy A., et al, "A novel heterodimeric cysteine protease is required for interleukin-1β processing in monocytes", Nature, Vol. 356, pp 768-774, 1992.						
	Tong, Liang, et al, "Crystal Structures of the Human p56 ^{lck} SH2 Domain in Complex with Two Short Phosphotyrosyl Peptides at 1.0 Å and 1.8 Å Resolution", J. Mol. Biol., Vol. 256, No 3, pp 601-610, 1996.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449			ATTY. DOCKET NO.: 39750-0001A		SERIAL NO.: 09//990,421		
			APPLICANT : Daniel A. ERLANSON et al.				
			FILING DATE: November 21, 2001		GROUP: 1639		
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Verdecia, M.A. et al, "Structure of the human anti-apoptotic protein surviving reveals a dimeric arrangement", Nature Structural Biology, Vol. 7, No 7, pp 602-608, July 2000.						
	Vigers, Guy P.A., et al, " X-ray Crystal Structure of a Small Antagonist Peptide Bound to Interleukin-1 Receptor Type 1", J. Biol. Chem., Vol. 275, No. 47, pp 36927-36933, 2000.						
	Wang, Zhulun, et al., "The structure of mitogen-activated protein kinase p38 at 2.1-Å resolution", Proc. Natl. Acad. Sci., Vol. 94, pp 2327-2332, March 1997.						
	Wiesmann, Christian, et al., "Crystal Structure at 1.7 Å Resolution of VEGF in Complex with Domain 2 of the Flt-1 Receptor", Cell, Vol. 91, pp 695-704, November 1997.						
	Williams, Shawn P., et al., "Atomic structure of progesterone complexed with its receptor", Nature, Vol. 393, pp 392-396, May 1998.						
	Wu, Jiangye, et al, "Quantitative electrospray mass spectrometry for the rapid assay of enzyme inhibitors", Chemistry & Biology, Vol. 4, pp 653-657, September 1997.						
	Wu, Hao, et al., "Kinetic and structural analysis of mutant CD4 receptors that are defective in H IV gp120 binding", Proc. Natl. Acad. Sci. USA, Vol. 93, pages 15030-15035, December 1996.						
	Xu, W. et al, "Crystal Structures of c-Src Reveal Features of Its Autoinhibitory Mechanism", Molecular Cell, Vol. 3, pp 629-638, May 1999.						
	Xu, Robert X., et al, "Atomic Structure of PDE4: Insights into Phosphodiesterase Mechanism and Specificity", Science, Vol. 288, pp 1822-1825, June 2000.						
	Xu, G. et al, "Covalent inhibition revealed by the crystal structure of the caspase-8/p35 complex", Nature, Vol. 410, pp 494-497, March 2001.						
	Yao, Nanhua, et al., "Structure of the hepatitis C virus RNA helicase domain", Nature Structural Biology, Vol. 4, No. 6., pp 463-467, June 1997.						
	Ye, Hong, et al, "The Structural Basis for the Recognition of Diverse Receptor Sequences by TRAF2Mol", Cell, Vol. 4, pp 321-330, September 1999.						
EXAMINER			DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.